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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,387	02/26/2004	Lei Shao	042390.P16330	4947
4300 1230/2008 RYTEL/BSTZ BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040			EXAMINER	
			NGUYEN, LEON VIET Q	
			ART UNIT	PAPER NUMBER
ociui i i i i	3, 0.17 1005 1010		2611	
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			12/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/789,387 SHAO ET AL. Office Action Summary Examiner Art Unit LEON-VIET Q. NGUYEN 2611 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 September 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 26 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

 This office action is in response to communication filed on 9/24/08. Claim 2 has been cancelled. Claim 1 is pending on this application.

Response to Arguments

Applicant's arguments with respect to claim 2 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary sikil in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Boariu et al (US6865237) in view of El-Gamel et al (US701053).

Re claim 1, Boariu teaches receiving content for transmission (receiver 302 in fig. 3) from a plurality of three or more transmit antennae (antennas 314, 316, and 318 in fig. 3); and

generating a rate-one (col. 12 lines 51-53), space-frequency code matrix (col. 12 lines 38-50) from the received content for transmission via the plurality of three or more transmit antennae (antennas 314, 316, and 318 in fig. 3).

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Boariu fails to teach a method wherein the plurality of three or more transmit antennae provide full space-frequency diversity of M^*N^*L , where M is number of transmit antenna, N is number of receiver antenna, L is order of frequency selective channel. However El-Gamel teaches providing full space-frequency diversity of M^*N^*L (col. 3 lines 35-37, col. 13 lines 10-29, Table 3), where M is number of transmit antenna (L_T in table 3), N is number of receiver antenna (Boariu teaches using 1 receive antenna in fig. 3), L is order of frequency selective channel (L_{IS} in Table 3).

Therefore taking the combined teachings of Boariu and El-Gamel as a whole, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the step of El-Gamel into the method of Boariu. The motivation to combine El-Gamel and Boariu would be to advantageously maximize spatial and temporal diversity (col. 3 lines 41-42 of El-Gamel).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEON-VIET Q. NGUYEN whose telephone number is (571)270-1185. The examiner can normally be reached on Monday-Friday, alternate Friday off, 7:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on 571-272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leon-Viet Q Nguyen/ Examiner, Art Unit 2611

/David C. Payne/ Supervisory Patent Examiner, Art Unit 2611